PATENT

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

Applicant:	BRANDT ET AL.	
Appl. No.	10/074,970	Examiner L. West
Аррі. 110.	10/0/4,970	Art Unit 2682
Confirm. No.	6905	Atty. Docket No. CS20456RL
Filed:	13 February 2002	Atty. Docket No. C320430KL
Title:	"Reselection Optimization Devices	ation in Mobile Wireless And Methods Therefor"

4th SUPPLEMENTAL APPEAL BRIEF UNDER 37 C.F.R. § 41.37(c)

Assistant Commissioner for Patents Alexandria, Virginia 22313

Sir:

Real Party In Interest

The real party in interest is Motorola Inc., by virtue of an assignment duly executed by the named inventor(s) and recorded in the Patent Office on 28 March 2002, REEL/FRAME 012741/0374.

Related Appeals & Interferences

There are no related appeals or interferences.

Status of Claims

Claims 1-20 stand finally rejected under 35 USC 102(e) for anticipation by U.S. Patent No. 6,625,467 (New) in a final Office Action mailed on 4 February 2005.

Status of Amendments

No amendments have been filed subsequent to the mailing of the final Office Action on 4 February 2005.

Summary of Claimed Subject Matter

Claim 1 is drawn to a method in a mobile wireless communication device including performing present signal measurements while receiving present paging information, and performing present reselection processing on prior signal measurements while performing present signal measurements. Page 3, line 23 – page 5, line 6; page 7, lines 6 – 20. FIGs. 2 & 3.

Claim 2 is drawn to performing prior signal measurements while receiving prior paging information before receiving the present paging information. Page 6, line 20 - page 7, line 5. Claim 3 is drawn to reducing power consumption by performing the present reselection processing on the prior signal measurements while receiving the present paging information, performing prior signal measurements while receiving prior paging information before receiving the present paging information. Page 5, line 12 page 7, line 5. Claim 4 is drawn to reducing power consumption by

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performing the present reselection processing, based upon the prior signal measurements, and receiving the present paging information in a substantially overlapping time period. Page 5, line 12 – page 7, line 5. Claim 19 is drawn to reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing. Page 5, line 12 – page 7, line 5. Claim 20 is drawn to performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period. Page 5, line 12 – page 7, line 5.

Claim 8 is drawn to a method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements including performing present signal measurements while receiving the present paging information, performing reselection processing while receiving present paging information, reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior paging information. Page 3, line 23 – page 7, line 20. FIGs. 2, 3 & 4. Claim 11 is drawn to receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode. Page 5, line 12 – page 7, line 5.

Claim 12 is drawn to a method in a wireless communication device, comprising receiving periodic paging information, performing periodic signal measurements, performing periodic reselection processing, reducing power consumption by receiving at least a portion of the periodic paging information concurrently with performing at least a portion of the

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periodic signal measurements and performing at least a portion of the periodic

reselection processing. Page 3, line 23 – page 7, line 20. FIGs. 2, 3 & 4. These

and other aspects of the invention are discussed more fully page 1, line 16 -

page 8, line 19 of the instant specification and are illustrated in the FIGS. 1-4.

Claim 13 is drawn to performing present reselection processing on prior signal

measurements while performing present signal measurements. Page 5, line 12

- page 7, line 5.

Claim 15 is drawn to a method in a TDMA communication device

including performing present signal measurements while receiving present

paging information, and performing present reselection processing on prior

signal measurements while performing present signal measurements. Page 3,

line 23 – page 5, line 6; page 7, lines 6 – 20. FIGs. 2 & 3.

Claim 18 is drawn to a method in a WCDMA communication

device including performing present signal measurements while receiving

present paging information, and performing present reselection processing on

prior signal measurements while performing present signal measurements.

Page 3, line 23 – page 5, line 6; page 7, lines 6 – 20. FIGs. 2 & 3.

Grounds of Rejection for Review on Appeal

The issue is whether Claims 1-20 are anticipated by U.S. Patent

No. 6,625,467 (New) under 35 USC 102(e).

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Arguments

Rejection Summary

Claims 1-20 stand rejected under 35 USC 102(e) as being anticipated by U.S. Patent No. 6,625,467 (New).

Summary of New

New discloses performing idle mode reacquisition and handoff in wireless communication systems having base stations that are not synchronized, wherein the remote terminal is assigned paging times that differ from base station to base station. New, col. 3, line 15 – col. 4, line 11. At col. 9, line 50 - col. 10, line 22, referenced by the Examiner to support the rejection of claims, New discloses the processing of multiple base stations in an asynchronous system. In FIG. 4, at interval 416, a remote terminal in the active state adds base station (2) to the reacquisition search list based on a calculation of its reselection timer. At interval 422, the terminal is inactive. At time period T_{CR1} in interval 426, the terminal wakes up and performs base station reacquisition using an acquisition search list. At a later time period T₁ in interval 426 new demodulates the paging channel for the preferred base station determined previously. Thereafter, the terminal performs a priority search for new neighboring base stations. At col. 5, lines 53-65, New discusses inactivating the terminal during times other than those corresponding to the paging channel time slot to which the terminal is assigned.

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Regarding Claim 1, contrary to the Examiner's assertion, New does not disclose or suggest a

... method in a mobile wireless communication device, comprising:

receiving present paging information;

performing present signal measurements while receiving the present paging information;

performing present reselection processing on prior signal measurements while performing present signal measurements.

Contrary to the Examiner's assertion, there is no indication that New receives present paging information while performing present signal measurements. New discloses demodulating the paging channel at time period T₁, which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. There is no indication that New performs present reselection processing on prior signal measurements while performing present signal measurements. New merely discloses performing reacquisition of the base stations on the reacquisition search list before updating the search list. New, col. 10, lines 2-5. Claim 1 is thus patentably distinguished over New.

Patentability of Claim 2

Regarding Claim 2, New does not disclose or suggest, in combination with the limitations of Claim 1

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... performing the prior signal measurements while receiving prior

paging information before receiving the present paging information.

New does not discuss performing signal measurements while receiving

paging information. New discloses demodulating the paging channel at time

period T₁, which occurs after the reacquisition time period T_{CR1} in FIG. 4.

New, col. 10, lines 2-9. Claim 2 is thus further patentably distinguished over

New.

Patentability of Claim 3

Regarding Claim 3, New does not disclose or suggest in

combination with the limitations of Claim 1 and any intervening claims.

... reducing power consumption by performing the present reselection processing on the prior signal measurements while receiving the

present paging information, performing the prior signal measurements

while receiving prior paging information before receiving the present

paging information.

New cannot reduce power as claimed because New does not disclose

reacquiring while receiving present paging information. New discloses

demodulating the paging channel at time period T₁, which occurs after the

reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 3 is thus

further patentably distinguished over New.

Patentability of Claim 4

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Regarding Claim 4, New does not disclose or suggest, in

combination with the limitations of Claim 1

... reducing power consumption by performing the present reselection processing, based upon the prior signal measurements, and receiving

the present paging information in a substantially overlapping time

period.

Contrary to the Examiner's assertion, New does not reduce power

consumption as claimed since New does not perform reselection processing

and receiving paging information during an overlapping time period. New

discloses demodulating the paging channel at time period T₁, which occurs

after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9.

Claim 4 is thus further patentably distinguished over New.

Patentability of Claim 5

Regarding Claim 5, contrary to the Examiner's assertion, New

does not disclose or suggest in combination with the limitations of Claim 1,

... entering a minimal power consumption mode while not receiving

paging information and not performing signal measurements and not

performing reselection processing.

Claim 5 is thus further patentably distinguished over New.

Patentability of Claim 6

Regarding Claim 6, New does not disclose or suggest, in

combination with the limitations of Claim 1,

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... maximizing minimal power consumption mode operation by

performing the reselection processing while substantially concurrently

receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection

processing and receive paging information concurrently. New discloses

demodulating the paging channel at time period T₁, which occurs after the

reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 6 is thus

further patentably distinguished over New.

Patentability of Claim 7

Regarding Claim 7, New does not disclose or suggest, in

combination with the limitations of Claim 1,

... receiving present paging information, performing present signal

measurements, and performing reselection processing while operating

the wireless communication device in idle mode.

Contrary to the Examiner's assertion, New performs signal measurements and

receives paging information during active states (at blocks 416 and 426 in FIG.

4.). Claim 7 is thus further patentably distinguished over New.

Patentability of Claim 8

Regarding independent Claim 8, contrary to the Examiner's

assertion, New does not disclose or suggest a

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... method in a mobile wireless communication device that receives paging information and performs neighbor signal measurements, comprising:

receiving present paging information;

performing present signal measurements while receiving the present paging information;

performing reselection processing while receiving present paging information;

reducing power consumption by performing the reselection processing on prior signal measurements performed while receiving prior paging information.

There is no indication that New receives present paging information while performing present signal measurements. Also, there is no indication that New performs present signal measurements during reacquisition, at interval (426). New does not reduce power consumption as claimed since New does not perform reselection processing while receiving paging information. New discloses demodulating the paging channel at time period T₁, which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. Claim 8 and the claims that depend therefrom are thus patentably distinguished over New.

Patentability of Claim 9

Regarding Claim 9, contrary to the Examiner's assertion, New does not disclose or suggest, in combination with the limitations of Claim 8,

... entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing. Atty. Docket No. CS20456RL

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Claim 9 is thus further patentably distinguished over New.

Patentability of Claim 10

Regarding Claim 10, contrary to the Examiner's assertion, New

does not disclose, in combination with the limitations of Claim 8,

... maximizing minimal power consumption mode operation by

performing the reselection processing while substantially concurrently

receiving the paging information.

Contrary to the Examiner's assertion, New does not perform reselection

processing and receive paging information substantially concurrently. New

discloses demodulating the paging channel at time period T₁, which occurs

after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9.

Claim 10 is thus further patentably distinguished over New.

Patentability of Claim 11

Regarding Claim 11, New does not disclose or suggest, in

combination with the limitations of Claim 8,

... receiving present paging information, performing present signal measurements, and performing reselection processing while operating

the wireless communication device in idle mode.

Contrary to the Examiner's assertion, New performs signal measurements and

receives paging information during active states (at blocks 416 and 426 in FIG.

4.). Claim 11 is thus further patentably distinguished over New.

Patentability of Claim 12

Regarding independent Claim 12, contrary to the Examiner's

assertion, New does not disclose or suggest a

... method in a wireless communication device, comprising:

receiving periodic paging information;

performing periodic signal measurements;

performing periodic reselection processing;

reducing power consumption by receiving at least a portion of

the periodic paging information concurrently with performing at least a portion of the periodic signal measurements and performing at least a

portion of the periodic reselection processing.

There is no indication that New receives periodic paging

information while concurrently performing periodic signal measurements, i.e.,

while evaluating base station (2) as a handoff candidate during active state

(416).New performs reacquisition before the paging information is

demodulated. Particularly, New discloses demodulating the paging channel

at time period T_1 , which occurs after the reacquisition time period T_{CR1} in FIG.

4. New, col. 10, lines 2-9. Therefore New does not suggest reducing power

consumption as claimed. Claim 12 is thus patentably distinguished over New.

Patentability of Claim 13

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Regarding Claim 13, New does not disclose or suggest, in

combination with the limitations of Claim 12,

... performing present reselection processing on prior signal

measurements while performing present signal measurements.

Contrary to the Examiner's assertion, New does not perform reselection

processing on prior signal measurements while performing time present signal

measurements. New discloses demodulating the paging channel at time

period T₁, which occurs after the reacquisition time period T_{CR1} in FIG. 4.

New, col. 10, lines 2-9. Claim 13 is thus further patentably distinguished over

New.

Patentability of Claim 14

Regarding Claim 14, contrary to the Examiner's assertion, New

does not disclose or suggest, in combination with the limitations of Claim 12,

... operating in a minimal power consumption mode when not

receiving periodic paging information and not performing periodic signal measurements and not performing periodic reselection

processing.

Claim 14 is thus further patentably distinguished over New.

Patentability of Claim 15

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Regarding independent Claim 15, New does not disclose or

suggest a

... method in a TDMA wireless communication device that receives periodic paging blocks and performs periodic neighbor signal measurements, comprising:

receiving a present paging block;

performing present neighbor cell signal strength measurements while receiving the present paging block;

performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

Contrary to the Examiner's assertion, there is no indication that New receives a present paging block while performing present neighbor signal measurements, i.e., while evaluating base station (2) as a handoff candidate during active state (416). New discloses demodulating the paging channel at time period T₁, which occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9. New demodulates the paging channel after Claim 15 and the claims that depend therefrom are thus reacquisition. patentably distinguished over New.

Patentability of Claim 16

Regarding Claim 16, contrary to the Examiner's assertion, New does not disclose, in combination with the limitations of Claim 15,

> ... reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing.

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Claim 16 is thus further patentably distinguished over New.

Patentability of Claim 17

Regarding Claim 17, contrary to the Examiner's assertion, New

does not disclose

... reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the periodic neighbor cell signal strength measurements, and performing at least a

portion of the reselection processing concurrently.

Contrary to the Examiner's assertion, New does not perform reselection

processing and receive paging information substantially concurrently. New

performs reacquisition before the paging information is demodulated. See

New at col. 9: 66 - col. 10: 9. Claim 17 is thus further patentably distinguished

over New.

Patentability of Claim 18

Regarding Claim 18, New does not disclose or suggest a

... method in a WCDMA wireless communication device that

receives periodic paging indicator channel blocks and performs

periodic reselection processing, comprising:

receiving a present paging indicator channel block;

performing present signal measurements while receiving the

present paging indicator channel block;

performing reselection processing for prior signal measurements

while receiving the present paging indicator channel block and

performing the present signal measurements.

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Contrary to the Examiner's assertion, there is no indication that

New receives a present paging indicator channel block while performing

present neighbor signal measurements, i.e., while evaluating base station (2) as

a handoff candidate during active state (416). There is also no indication that

New performs present signal measurements during reacquisition in block

(426). New demodulates the paging channel after reacquisition. Particularly,

New discloses demodulating the paging channel at time period T₁, which

occurs after the reacquisition time period T_{CR1} in FIG. 4. New, col. 10, lines 2-9.

Claim 18 is thus patentably distinguished over New.

Patentability of Claim 19

Regarding Claim 19, contrary to the Examiner's assertion, New

does not disclose, in combination with the limitations of Claim 19,

... reducing power consumption by operating in a minimal power

consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not

performing reselection processing.

Claim 19 is thus further patentably distinguished over New.

Patentability of Claim 20

Regarding Claim 20, contrary to the Examiner's assertion, New

does not disclose, in combination with the limitations of Claim 15,

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... performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.

Claim 20 is thus further patentably distinguished over New.

Prayer for Relief

Kindly reverse and vacate the rejections of claims, in view of the discussion above, with instructions for the Examiner to allow said Claims to issue in a United States Patent without further delay and provide other relief warranted.

Respectfully submitted,

/R K BOWLER/

ROLAND K. BOWLER II 15 Nov. 2006 Reg. No. 33,477

INTELLECTUAL PROPERTY DEPT. (RKB) 600 NORTH U.S. HIGHWAY 45, W4-37Q TELEPHONE No. (847) 523-3978 LIBERTYVILLE, ILLINOIS 60048 FACSIMILE NO. (847) 523-2350 Communication Devices And Methods Therefor" Atty. Docket No. CS20456RL

CLAIMS APPENDIX

1. (Original) A method in a mobile wireless communication

device, comprising:

receiving present paging information;

performing present signal measurements while receiving the

present paging information;

performing present reselection processing on prior signal

measurements while performing present signal measurements.

2. (Previously Presented) The method of Claim 1, performing

prior signal measurements while receiving prior paging information before

receiving the present paging information.

3. (Previously Presented) The method of Claim 1, reducing power

consumption by performing the present reselection processing on the prior

signal measurements while receiving the present paging information,

performing prior signal measurements while receiving prior paging

information before receiving the present paging information.

4. (Original) The method of Claim 1, reducing power

consumption by performing the present reselection processing, based upon

the prior signal measurements, and receiving the present paging information

in a substantially overlapping time period.

5. (Original) The method of Claim 1, entering a minimal power

consumption mode while not receiving paging information and not

performing signal measurements and not performing reselection processing.

6. (Original) The method of Claim 5, maximizing minimal power

consumption mode operation by performing the reselection processing while

substantially concurrently receiving the paging information.

7. (Original) The method of Claim 1, receiving present paging

information, performing present signal measurements, and performing

reselection processing while operating the wireless communication device in

idle mode.

8. (Original) A method in a mobile wireless communication

device that receives paging information and performs neighbor signal

measurements, comprising:

receiving present paging information;

performing present signal measurements while receiving the

present paging information;

performing reselection processing while receiving present paging

information;

reducing power consumption by performing the reselection

processing on prior signal measurements performed while receiving prior

paging information.

- 9. (Original) The method of Claim 8, entering a minimal power consumption mode when not receiving paging information and not performing signal measurements and not performing reselection processing.
- 10. (Original) The method of Claim 8, maximizing minimal power consumption mode operation by performing the reselection processing while substantially concurrently receiving the paging information.
- 11. (Original) The method of Claim 8, receiving present paging information, performing present signal measurements, and performing reselection processing while operating the wireless communication device in idle mode.
- 12. (Original) A method in a wireless communication device, comprising:

receiving periodic paging information;

performing periodic signal measurements;

performing periodic reselection processing;

reducing power consumption by receiving at least a portion of the periodic paging information concurrently with performing at least a portion of the periodic signal measurements and performing at least a portion of the periodic reselection processing.

13. (Original) The method of Claim 12, performing present reselection processing on prior signal measurements while performing present signal measurements.

- 14. (Original) The method of Claim 12, operating in a minimal power consumption mode when not receiving periodic paging information and not performing periodic signal measurements and not performing periodic reselection processing.
- 15. (Original) A method in a TDMA wireless communication device that receives periodic paging blocks and performs periodic neighbor signal measurements, comprising:

receiving a present paging block;

performing present neighbor cell signal strength measurements while receiving the present paging block;

performing reselection processing for prior neighbor cell signal strength measurements while receiving the present paging block and performing the present neighbor cell signal strength measurements.

- 16. (Original) The method of Claim 15, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging blocks and not performing periodic neighbor cell signal strength measurements and not performing reselection processing.
- 17. (Original) The method of Claim 15, reducing power consumption by receiving at least a portion of the periodic paging blocks, performing at least a portion of the periodic neighbor cell signal strength measurements, and performing at least a portion of the reselection processing concurrently.

18. (Original) A method in a WCDMA wireless communication device that receives periodic paging indicator channel blocks and performs periodic reselection processing, comprising:

receiving a present paging indicator channel block;

performing present signal measurements while receiving the present paging indicator channel block;

performing reselection processing for prior signal measurements while receiving the present paging indicator channel block and performing the present signal measurements.

- 19. (Original) The method of Claim 18, reducing power consumption by operating in a minimal power consumption mode when not receiving periodic paging indicator blocks and when not performing periodic signal measurements and not performing reselection processing.
- 20. (Original) The method of Claim 18, performing signal measurements between receiving periodic paging indicator blocks when the period between the periodic paging indicator blocks is greater than a predetermined period.

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EVIDENCE APPENDIX

(None)

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RELATED PROCEEDINGS APPENDIX

(None)